

E7.4-1030.9

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Monthly Report  
to  
National Aeronautics and Space  
Administration

Contract No. NAS 9-13337

Period Ending February 1, 1974

E74-10309) [DEVELOP TECHNIQUES AND  
PROCEDURES, USING MULTISPECTRAL SYSTEMS,  
TO IDENTIFY FROM REMOTELY SENSED DATA  
THE PHYSICAL AND THERMAL (South Dakota  
State Univ.) 3 p HC \$4.00 CSCL 08M

N74-17996

G3/13 Unclass  
OC309

Remote Sensing Institute  
South Dakota State University  
Brookings, South Dakota 57006

### 3.0 Report of work as identified in Ex. A (SOW) --- Contract NAS 9-13337

#### 3.1 Progress Reports

##### a. Overall status ----

A test site was selected near McAllen, Texas, for the SL-4 SKYLAB data collection. Coordination of the site with the local owners and the NASA aircraft division was accomplished. The site included seven different environmental settings: 1) dry fallow, 2) irrigated cabbage, 3) irrigated onions (essentially fallow), 4) rangeland, 5) sugar cane, 6) irrigated lettuce, and 7) sewage lagoon. The RSI aircraft was brought on site for both daytime and predawn data to be collected. Due to cloud restrictions, no data were collected on any of January 4, 9, or 14.

A new site was selected on track 20 for possible data collection either January 23 or January 28. Coordination was accomplished with the land owners and with NASA personnel. A successful SKYLAB mission was accomplished, to the best of our knowledge, on the January 28 date. The environmental settings monitored with ground-based equipment included: 1) three moisture levels of alfalfa, 2) irrigated wheat [essentially fallow], 3) irrigated onions, 4) rangeland, and 5) fallow.

##### b. Recommendations ----

None at this time.

##### c. Expected accomplishments ----

The progress to date for the boundary detection procedure, including thresholding techniques, will be summarized and presented.

The ground-based data collected will be reduced and evaluated.

##### d. A readily.....results.....

None at this time.

##### e. Summary outlook ----

At this time, the summary outlook appears to follow in general, that which is stated in the "SOW" of the contract. However, those data to be analyzed will be selected after knowledge of which data are available.

f. Travel summary ----

None expected.